

2018 Mercedes Benz E63S AMG 4MATIC Sed (213.089) V8-4.0L Turbo (177.980)

Vehicle > Technical Service Bulletins

## HEADLAMPS FOGGED



Mercedes-Benz

# - Headlamps fogged -

Topic number	LI82.10-P-063240
Version	7
Function group	82.10 Exterior lights
Date	06-30-2020
Validity	Model series 117, model series 176 with SA code: 631, 632 Model series 212 SA code: 640, 641, 642 X253, X156, model series 213 and 238 with SA code: 631, 632, 640, 641, 642 Model series 231 with SA code 640, 641, 642 Model series 177, 247 with SA code: 631, 632, 640, 641, 642
Reason for change	Assignment of part numbers for BR 177 and 247

## Complaint

Lamp unit fogged or droplets forming

## Cause

Because of the housing cover with pressure compensation membrane, the lamp unit is a "closed system".

This means that the lamp unit is protected against acid gases, dirt and exhaust gas.

However, moisture can still enter from two sources. Through absorption and desorption (the commonest cause) or through permeation.

Moisture is either absorbed by the plastic material and, when the light source is switched on, it is released from the plastic by desorption, or the moisture penetrates through the plastic materials of the headlamp from outside (permeation). This can lead to the formation of condensation on the lens of the headlamp.

## Remedy

Check housing cover of lamp unit for natural fogging or dew as per LI82.10-P-050139.

If a reduction in the degree of fogging is visible, the desiccant packs can be used once the condensation has completely evaporated.

1. Remove lamp unit
2. Cut open housing of lamp unit on inside of bar (picture 01), along the notch ( red dotted line in picture\_03) using hot knife (WS82.00-P-0026B).

Make sure that the outer edge is not damaged during the cutting process.

Note: Risk of injury from burns to skin and eyes, risk of poisoning from inhaling vapors when working with plastics.

3. Place desiccant pack in new service cover and bolt down (Figure 02)
4. Stick existing transparent membrane onto surface provided

Note: The bonding surface must be clean and dry.

5. Attach service cover with desiccant pack to headlamp

6. If the headlamp housing has an additional 2nd membrane, this must be covered over with the masking tape.

**Note:** The bonding surface must be clean and dry.

7. Reinstall lamp unit

.

To ensure that the drying pack (absorption) acts effectively, the headlamp has to be air-sealed.

Observe or check the following points for this:

1. The seals on the central connector must all be present [Picture 5 (1)] and correctly fitted [Picture 5 (2)].
2. The new transparent diaphragm must be correctly bonded [Picture 6].
3. Check headlamp housing for any external damage.

File	Designation
Bild 3.jpg	Cutting edge
Bild 5.jpg	1) Seals missing 2) Seals not correctly fitted
Bild 6.jpg	Transparent diaphragm correctly or incorrectly bonded.
Bild_01.jpg	Lamp unit, model series 212
Bild_02.jpg	1) Service cover for desiccant pack 2) Desiccant pack 3) Threaded connection

## Symptoms

### Symptom

Lighting / Exterior lights / Driving lights / Main headlamps / Fogged

## Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 826 16 00	11		Desiccant pack (20g)	1	One desiccant pack per headlamp	X
A 000 826 10 00			Large service cover	1	For BR 212, 177 and 247	X
A 000 826 09 00			Small service cover	1	For model series 156 - 176 - 117 - 213 - X253 - 231M	X
A 000 826 20 00			Masking tape	1	Masking tape for the existing 2nd membrane (on headlamp housing)	X

Bild 3

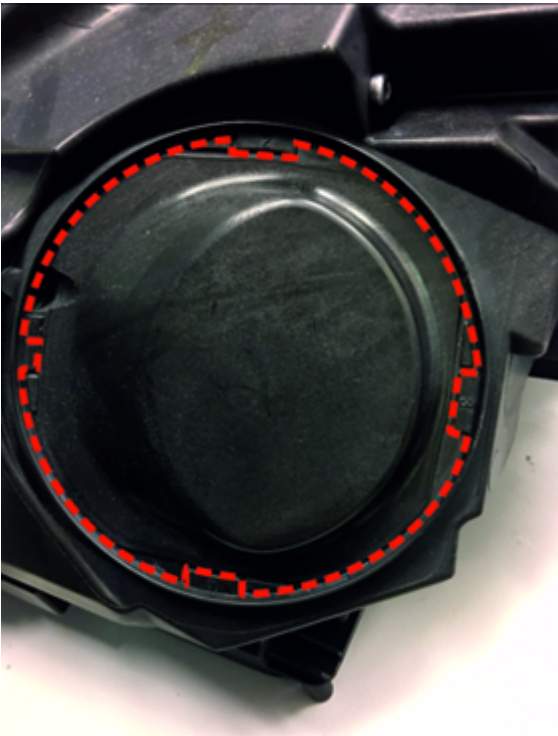


Bild 5

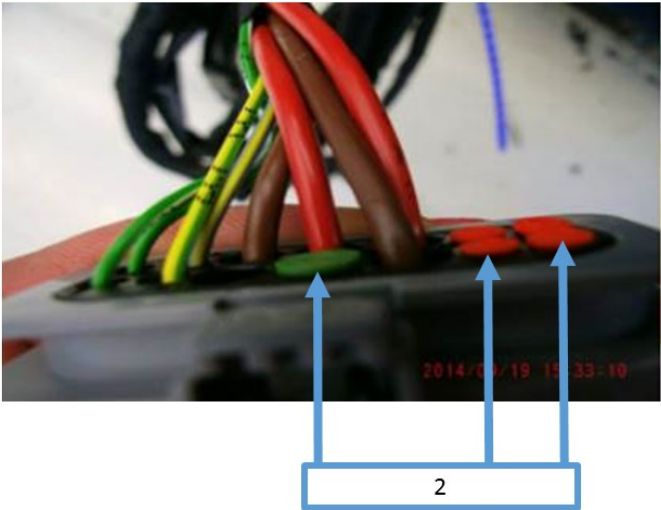
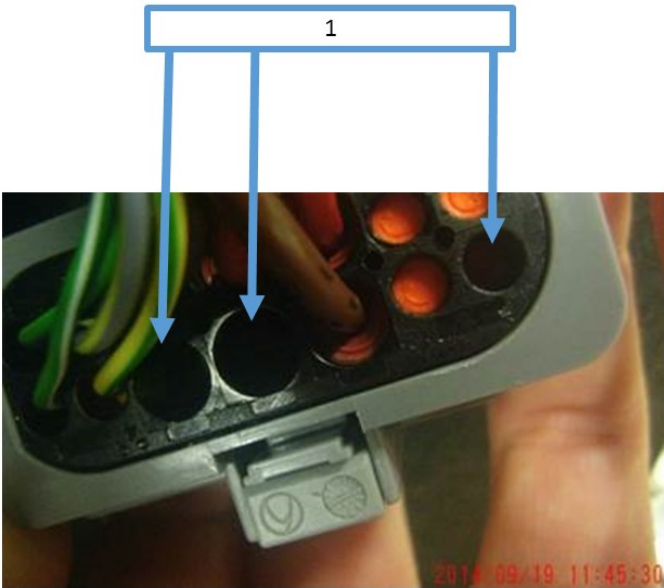


Bild 6



Bild\_01



Bild\_02

